

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A strain of the yeast *Saccharomyces cerevisiae* which can no longer grow on substrates with hexoses as the only carbon source, wherein none of the seventeen hexose transporters is functional, and whose ability of growing on a substrate with a hexose as the only carbon source is restored when a GLUT4 gene is expressed in this strain.

Claim 2 (previously presented): The strain of the yeast *Saccharomyces cerevisiae* of claim 1 as deposited at the Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH as DSM 14035, DSM 14036 or DSM 14037.

Claim 3 (previously presented): A method for generating a strain of the yeast *Saccharomyces cerevisiae*, comprising the steps of:

- a) providing a strain of *Saccharomyces cerevisiae* yeast,
- b) eliminating the function of all hexose transporters of the strain of yeast from a) by mutating or deleting the relevant genomic sequences,
- c) subjecting the strain from step b) to further mutagenesis, and
- d) screening the mutated strains from step c) for the ability to grow on a substrate with a hexose as the only carbon source when a GLUT4 gene is expressed in the strain.

Claim 4 (previously presented): The strain of the yeast *Saccharomyces cerevisiae* as claimed in claim 1, which comprises a GLUT4 gene.

Claim 5 (previously presented): The strain of the yeast *Saccharomyces cerevisiae* as claimed in claim 4, wherein the GLUT4 gene is under the functional control of a promoter which can be expressed in yeast.

Claim 6 (previously presented): The strain of the yeast *Saccharomyces cerevisiae* as claimed in claim 4, wherein the Glut4 gene is a human Glut4 gene, a mouse Glut4 gene, or a rat Glut4 gene.

Claim 7 (previously presented): The strain of the yeast *Saccharomyces cerevisiae* as claimed in claim 4 as deposited at the Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH as DSM 14038, DSM 14039 or DSM 14040.

Claim 8 (previously presented): A method for generating a strain of the yeast *Saccharomyces cerevisiae* as claimed in claim 4, comprising the steps of:

- a) providing a strain of the yeast *Saccharomyces cerevisiae* which can no longer grow on substrates with hexoses as the only carbon source, and whose ability of growing on a substrate with a hexose as the only carbon source is restored when a GLUT4 gene is expressed in the strain;
- b) transforming the yeast of step a) with a plasmid comprising a GLUT4 gene which is under the functional control of a promoter which can be expressed in yeast;
- c) plating the strain of step b) onto a medium comprising glucose as the only carbon source; and
- d) isolating the strain that has been plated in accordance with c) and which grows on this medium.

Claim 9 (previously presented) The method of claim 8, wherein the GLUT4 gene used in transforming step b) is a human GLUT4 gene, a mouse GLUT4 gene, or a rat GLUT4 gene.

Claim 10 (previously presented): The method of claim 8, wherein a vector with a polynucleotide sequence as shown in SEQ ID No. 9 or 10 is used in transforming step b).

Claims 11-25 (canceled)

Claim 26 (previously presented): A strain of the yeast *Saccharomyces cerevisiae* produced by the process of claim 3.

Claim 27 (currently amended): The method of claim 3, wherein step c) comprises:

- c₁) transforming the strain from step b) with a vector comprising the GLUT1 gene under the functional control of a promoter which can be expressed in yeast,
- c₂) subjecting the transformed strain of step c₁) to further mutagenesis,
- c₃) screening the transformed, mutated strain from step c₂) for the ability to grow on a substrate with a hexose as the only carbon source,
- c₄) isolating a transformed, mutated strain identified in step c₃) as having the ability to grown on a substrate with a hexose as the only carbon source, and

c₅) removing the vector comprising the GLUT1 gene from the isolated strain of step c₄).

Claim 28 (previously presented): A strain of the yeast *Saccharomyces cerevisiae* produced by the process of claim 27.